



# INTEGRATE-HTA

## Key domains of context and implementation and their assessment in systematic reviews of complex health interventions

### Preliminary Guidance

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- Reach and effectiveness of complex interventions inextricably linked with implementation in given context (Waters et al. 2011, Wells et al. 2012)
- Information on context and implementation often neither explicitly reported nor considered in interpretation
- Sufficient detail needs to be reported in primary studies and captured in systematic reviews/HTAs
- Assessment of generalizability and applicability

- Context frameworks: none found
- Implementation frameworks:
  - Promoting Action on Research Implementation in Health Services (**PARIHS**) framework (Kitson et al. 1998)
  - Reach Effectiveness Adoption Implementation Maintenance (**RE-AIM**) framework (Glasgow et al. 1999)
  - Consolidated Framework of Implementation Research (**CFIR**) (Damschroder et al. 2009)
  - **Model of Implementation Process** (Greenhalgh et al. 2004)
  - Practical, Robust Implementation and Sustainability Model (**PRISM**) (Feldstein & Glasgow, 2008)
  - **Diffusion of Service Innovations Model** (Rogers 1995)

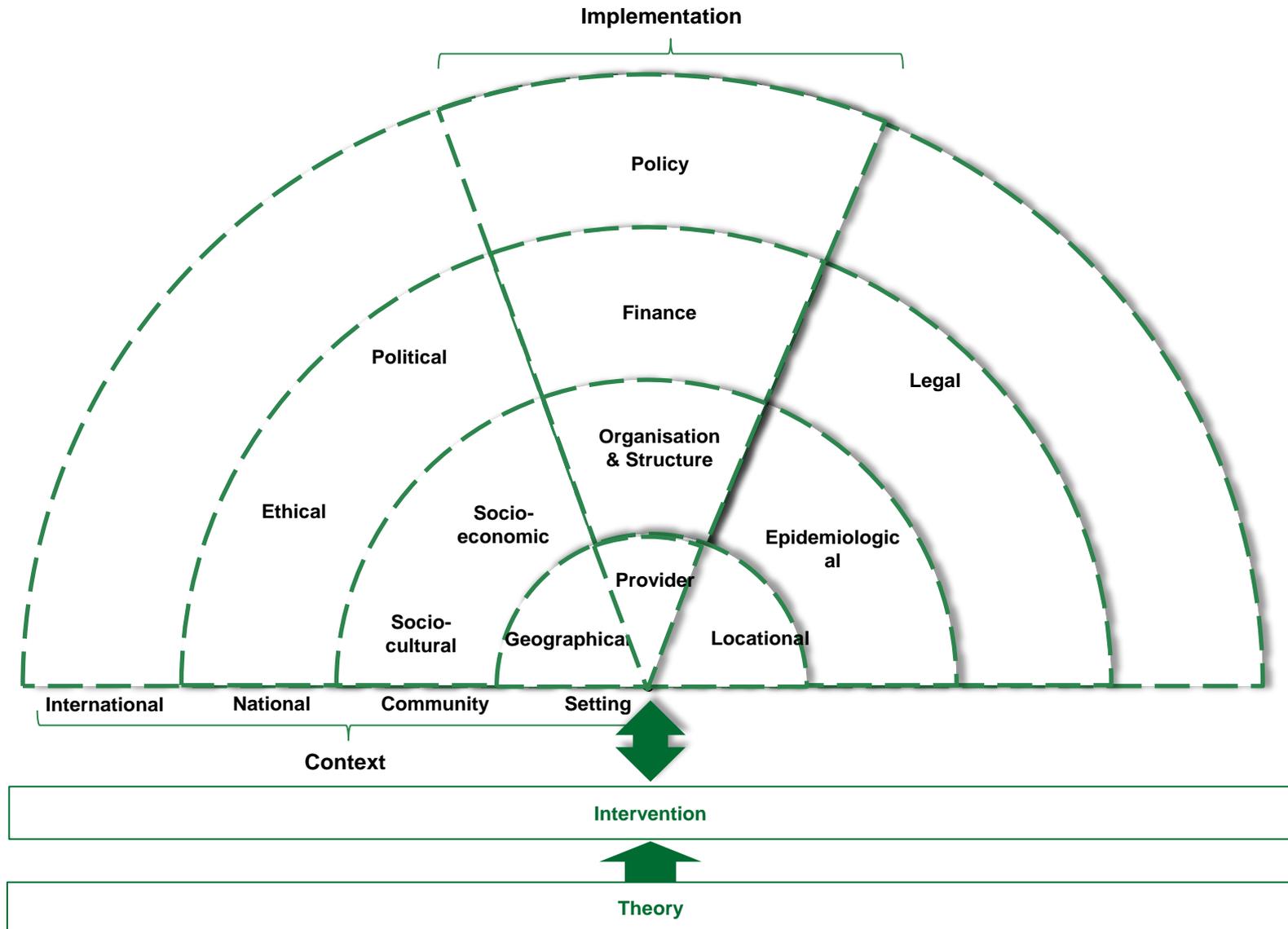
- Systematic, comprehensive documentation of context and implementation in systematic reviews of effectiveness/HTAs
- Formulation of research questions for qualitative/mixed-method systematic reviews

- Literature review:
  - Snowballing searches
  - Focus on existing definitions and methodological approaches
  - Identification of individual concepts
- Development of Context and Implementation for Complex Interventions (CICI) Framework
  - Development of definitions of key terms
  - Assembly of individual concepts under higher-order domains
  - Multiple stages of peer review
- Testing of the framework:
  - Series of rapid assessments
  - Testing in approx. three systematic reviews and one HTA

- Definitions of key terms
- Comprehensive framework with two dimensions
  - **Eight** interacting domains of context
  - **Four** interacting domains of implementation
- Guidance on application in systematic reviews and HTAs of complex interventions

- **Context** is the given, broad environment within which an intervention/technology is implemented (Damschroder et al. 2009)
- **Setting** is the immediate physical environment where an intervention/technology is delivered
- **Implementation** is defined as the constellation of measures and processes, which are intended to ensure uptake and sustained use of an intervention in a particular setting and context (Damschroder et al. 2009, Klein&Sorra 1996, Glasgow et al. 1999)

# Results: Context and Implementation for Complex Interventions (CICI) Framework



Domain	Definition	Description
<b>Location al</b>	The locational characteristics encompass the immediate physical and organisational environment, in which an intervention is delivered.	Depending on the specific intervention/technology, describing this domain may include: <ul style="list-style-type: none"> <li>- City, region, country (e.g. urban, rural) (Moher et al. 2010)</li> <li>- Type of study site (e.g. primary care, hospital, home, school, occupational setting (Moher et al. 2010)</li> <li>- Number of study sites (Moher et al. 2010)</li> </ul>
Domain	Definition	Description
<b>Provider</b>	This domain focuses on the characteristics of the individuals delivering the intervention/technology , including their behaviour as well as their knowledge, skills, motivation and beliefs	Depending on the specific intervention/technology, describing this domain may include: <ul style="list-style-type: none"> <li>•Competence, skills and knowledge</li> <li>•Beliefs and perceptions</li> <li>•Training Activities</li> <li>•Behaviour</li> <li>•Motivation</li> <li>•Capacity</li> </ul>

- Getting started:
  - What is the intervention?
  - What is its implementation?
  - Adapting framework to intervention and question
- Systematic reviews of effectiveness:  
documentation through data extraction
- Qualitative/mixed-method systematic reviews:  
basis for question formulation

**Context****Setting**

<b>Locational</b>	Which locational characteristics influence the intervention, its implementation, its population reach and its effectiveness? How does location exert its influence?
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**Implementation****Delivery**

<b>Provider</b>	What mechanisms and processes in the providers are applied in the implementation of the intervention? How do these enable or limit implementation?
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Based on existing approaches but goes beyond these:

- **Comprehensiveness:** consideration of both dimensions, their overlaps and interactions (previous approaches primarily focusing on implementation)
- **Flexibility:** Independent consideration of dimensions
- **Broad applicability** from simple to complex interventions in healthcare as well as broader health areas
- **User-friendliness in operationalization**

- Your questions?
- Distinction between context and implementation dimensions useful?
- Graphic and tabular presentation of framework and domains helpful?
- Major barriers to applicability?
- Added value of framework?

For any comments or feedback

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